



CPEC

Program Planning and Review to Promote Responsiveness to Public Needs

Item 9**Revised**

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by Stacy Wilson

Introduction

State law directs the California Postsecondary Education Commission to review and comment on the need for new degree and certificate programs proposed by the public higher education systems. The California Legislature, the Administration, and the Legislative Analyst's Office consider the review of proposals for new degree and certificate programs to be among CPEC's most important responsibilities.

This annual report provides a summary of program planning and review activities conducted by CPEC during the 2009–10 academic year. During this period, CPEC staff conducted an extensive review of a proposal to establish a nursing school at UC Davis, conducted independent reviews of 21 additional program proposals, assessed the long-range plans of the public higher education systems, and updated and modified program review agreements between CPEC and the systems to enhance the review process.

Use of this Report

The information and analyses in this report serve a number of purposes. Foremost, public officials and policy analysts can obtain from a single source a summary of the long-range academic and vocational program plans of CSU, UC, and the community colleges, and assess the extent to which those plans respond to emerging workforce and societal needs. Second, cost-benefit and cost-effectiveness analyses can be applied to those plans to inform the state of the projected operational and capital costs required over the next five to ten years to fund new degree and certificate programs. Third, workforce and societal needs can be prioritized and compared to higher education long-range plans to help ensure the effective use of program funding.

Next Steps

This annual report is submitted as an information item to allow sufficient time for the higher education systems and planners to review the report and to submit comments. It will be submitted for action in September 2009.

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STATUTORY OBLIGATION

CPEC's statutory responsibilities for reviewing degree and certificate programs are expressed in Education Code § 66903–66904:

The Commission shall have the power to require the governing boards and the institutions of public postsecondary education to submit data on plans and program costs and on other matters pertinent to effective planning and policy development. It shall review proposals for new programs, review the priorities that guide them, and review the degree of coordination with nearby public, independent, and private postsecondary institutions. The Commission shall make recommendations to the Governor and Legislature regarding program plans.

The Commission shall serve as a stimulus to the systems and institutions by projecting and identifying societal and educational needs and encouraging adaptability to change. It shall conduct studies of projected manpower and supply to improve the information base upon which student choices are made. The Commission shall have approval authority for all proposals for new joint doctoral programs between the California State University and the independent higher education sector.

CPEC assesses program proposals based on how well they comply with the following criteria: societal need, student demand, appropriateness to institutional mission, number of existing and proposed programs in the field, total cost, maintenance and improvement of quality, and advancement of knowledge. The criteria are summarized in Appendix A.

The review process is intended to ensure that state operational and capital funds to support new degree and certificate programs are spent wisely and that new programs will produce desirable educational outcomes while contributing to societal betterment. Although each public, independent, and private higher education system has a unique mission and social purpose, the systems are united in a fundamental way: each aims to enhance the intellectual, technical, and creative capacity of its students. Because advanced knowledge — scientific, technical, and procedural knowledge — tends to be organized by fields of study and delivered through specific programs, the ultimate success and benefit of the state's higher education enterprise rests with the quality and breadth of institutional degree and certificate programs.

REVISED PROGRAM PLANNING AND REVIEW AGREEMENTS

CPEC staff held several meetings with its Program Review Advisory Committee to update and modify planning agreements. The updates will enhance CPEC's success in meeting statewide planning responsibilities and statutory obligations. The makeup of the committee has changed since the last Commission meeting in March 2009. Current members are Stephanie Low (community colleges), Christine Hanson (CSU), Karen Yelverton-Zamarripa (CSU), Todd Greenspan (UC), Hilary Baxter (UC), Mark Whitaker (Legislative Analyst's Office), Jessika Nobles-Jones (CPEC), and Stacy Wilson (chairperson, CPEC).

The updated agreements place greater emphasis on long-range program planning, and less on the review of individual degree and certificate program proposals, which often number in the hundreds annually. The community college system does not prepare statewide long-range program plans, because planning falls under the purview of local districts and their governing boards. A different long-range planning arrangement is under discussion with the Chancellor's Office.

Program Proposals Subject to CPEC Review

The following criteria will be used in the future to determine if an individual program proposal will be subject to formal CPEC review and comment.

Community College Program Proposals Subject to Review

Community college program proposals are subject to formal review if any of the following conditions exist:

- The program is the first of its type to be offered by a community college.
- The program involves intersystem collaboration.
- The program requires new facilities, major renovation to existing facilities, or an expenditure of more than \$1.0 million in state funds for equipment.
- The program requires joint-use facilities.
- The program involves more than one district, or is likely to impact enrollment levels of neighboring districts.

CSU and UC Program Proposals Subject to Review

Undergraduate Programs. CSU and UC proposals for new undergraduate degree programs are not subject to formal review unless the campus or the system office is seeking state funding above established marginal cost funding rates. Reviewing proposals for high-cost programs fulfills an essential part of CPEC's statutory responsibilities of ensuring effective use of state resources.

Master's Programs. CSU and UC master's program proposals in the following discipline areas are subject to formal review and comment:

- | | | |
|-----------------------|-----------------------------------|------------------------|
| • Agriculture | • Engineering | • Mathematics |
| • Architecture | • Health professions | • Physical science |
| • Biological sciences | • Information science/Informatics | • Professional studies |
| • Business/Management | • Interdisciplinary | • Psychology |
| • Education | | |

CPEC does not review master's programs in the humanities, such as literature, art history, and music, and nearly all programs in the social sciences, such as sociology and political science. Although such programs fulfill important educational and societal needs, conducting credible and focused supply-demand analyses would be difficult because graduates of those fields tend to find employment in a wide range of industries and occupations. It is difficult to imagine, for example, a set of circumstances wherein staff would not concur with a recommendation to establish an art history or rhetoric program based in part on a supply-demand analysis.

Doctoral Programs. All CSU and UC doctoral programs, whether offered independently or jointly, are subject to formal review and comment by CPEC. Education Code §66010.4 gives CPEC approval authority for all proposals for new joint doctoral programs between CSU and independent universities.

Program Review Procedures and Timelines

Procedure	Description	Timeline
Updated long-range program plans of UC and CSU submitted to CPEC	Each year, UC and CSU will submit to CPEC in electronic form a list of projected degree programs its system wishes to establish over the next five to ten years.	By April 30 of each year
Program plans of the systems discussed	CPEC's Program Review Advisory Committee will convene to discuss the projected program plans of the systems.	By May 7 of each year
Preparation of CPEC proposal questionnaire	After a program proposal has been submitted to the system office that requires CPEC review, a CPEC questionnaire will be prepared that identifies the sections of the proposal where each specific CPEC review criterion is addressed.	Completed prior to submission of the proposal to CPEC
Program proposal and CPEC questionnaire submitted	CPEC staff would appreciate receiving a required program proposal as soon as the CPEC questionnaire is completed by the system office.	Proposal and CPEC questionnaire are to be submitted as soon as possible, but no later than 60 days from the anticipated first term of program operation
Preliminary CPEC review of program proposals	CPEC staff will conduct a preliminary review of a proposal and questionnaire and will notify the system office if additional questions need to be addressed and if additional supporting documents and analyses are required.	Within 30 days after receipt of the proposal and questionnaire
Final CPEC review of program proposals	<p>If no additional information is needed, CPEC staff will complete its review and notify the system office of its finding and decision regarding program concurrence.</p> <p>If additional information is needed, CPEC staff will notify the system office of its findings and decision regarding concurrence after the additional information has been reviewed.</p>	<p>Within 30 days after receipt of the proposal and questionnaire</p> <p>Within 30 days of receipt of additional information</p>
CPEC proposal agenda items	For some proposals requiring high operational and capital costs, CPEC staff might elect to prepare an information agenda item for review by CPEC.	Depends on CPEC meeting schedule
Systems prepare a list of program proposals that were submitted to CPEC for review and comment	Each year, the systems will prepare a list of program proposals submitted during the reporting period that required CPEC review and comment. CPEC staff will compare the lists with its program review logs and resolve any discrepancies.	By May 1 of each year
Systems submit a list of new degree programs established during the reporting period that did not require CPEC review	Each year, the systems will submit to CPEC a list of degree programs established during the reporting period that did not require CPEC review.	By May 5 of each year

Program Review Timelines

By April 30 of each year, CSU and UC agree to submit an updated listing of degree programs its system wishes to establish over the next five to ten years. By May 7 of each year, the Program Review Advisory Committee will convene to discuss the systems' projected program plans, the priorities that guide those plans, and the extent to which plans are responding to emerging societal, workforce, and labor market needs.

The systems agree to submit program proposals as soon as possible, but no later than 60 days prior to the anticipated first term of program implementation and operation. CPEC staff will conduct a preliminary review and will notify the system office within 30 days if additional information or supporting documents and analyses are needed. If no additional information is needed, staff will complete its review and notify the system office of its finding and recommendation within 30 days.

If additional information is needed, CPEC staff will notify the system office of its finding and recommendation within 30 days of receipt of the additional information. More details of the review activities and timelines are in the box on page 4, opposite.

CSU PROGRAM PROPOSALS

CSU's updated long-range program plans for 2009–10 to 2018–19 are shown in Appendix B. In March 2009 the CSU Board of Trustees granted planning authorization for 15 baccalaureate programs, 16 master's degree programs, and six doctoral program proposals.

The following table shows the proposed graduate programs in Appendix B as grouped into seven general discipline areas by CPEC staff. About 40% are in the physical sciences and professional studies. The physical science area includes engineering, geophysics, information technology, chemistry, and statistics. The professional studies area includes accounting, business management, social work, and public policy and administration.

Labor market data indicate reasonably high demand for workers with a master's or doctoral degree in the physical sciences, biological sciences, or health sciences. The state's economy is recovering at a much slower pace than many economists had originally forecast, which will probably limit job prospects in the near term for graduates with degrees in the professional studies area.

CPEC received nine CSU proposals, six for educational doctorate programs, and three for joint CSU–UC Ph.D. engineering programs. Over the past several years, CPEC has offered substantive comments and suggestions for strengthening proposal development in educational leadership. The comments and suggestions appear to be having positive effects on the quality of proposals. Staff concurred with recommendations to establish doctoral programs in educational leadership at CSU Stanislaus, CSU Northridge, and CSU East Bay.

CSU's Ten-Year Program Plans, 2009–19

General Discipline Area	Number	Percent
Physical Sciences	24	23.3%
Professional Studies	20	19.4
Humanities	14	13.6
Education	16	15.5
Biological Sciences	14	13.6
Social Sciences	7	6.8
Health Sciences	8	7.8
Total	103	100.0%

CSU Proposals CPEC Expects to Review by June 2010

Campus	Program	Degree Level and Projected Implementation	
Bakersfield	Computer Science	MS	2009
Chico	Engineering Management	MS	2009
Dominguez Hills	Biotechnology	MS	2009
	Public Health	MPH	2009
	Communication Disorders	MA	2010
East Bay	Biological Science	MS	2009
	Accounting	MS	2009
	Biotechnology	MS	2009
Fullerton	Chemistry	MA	2009
	Statistics	MA	2009
	Integrated Marketing Communication	MS	2009
	Biotechnology	MBt	2009
	Screenwriting	MFA	2009
	Social Work	MSW	2009
Humboldt	Education	EdD	2009
Long Beach	Applied Statistics	MS	2009
Los Angeles	Biotechnology	MBt	2009
	Technology	MS	2009
Maritime Academy	Transportation and Engineering	MS	2010
Monterey Bay	Management Information	MS	2009
	Nursing	MS	2010
	Social Work	MS	2010
Northridge	Public Policy	MPP	2009
	Computer Engineering	MS	2010
	Information Technology	MS	2010
	Marketing and Design	MS	2010
	Economic Policy Analysis	MA	2010
	Technology in Human Services	MA	2010
	Assistive Technology	MS	2010
	Biotechnology	MBt	2009
Pomona	Interior Architecture	MIA	2010
	Geological Sciences	MS	2010
	Educational Leadership	EdD	2010
	Biological Sciences	MA	2009
Sacramento	Accountancy	MA	2009
San Bernardino	Kinesiology	MS	2009
	Information Systems	MS	2010
San Diego	Information Systems	MS	2010
San Francisco	Special Education	MS	2009
	Audiology	AuD	2009
San Jose	Medical Product Development	MS	2010
San Luis Obispo	Disaster Management	MA	2010
	Fire Protection Engineering	MS	2010
	Agriculture Education	MAE	2010
	Education	EdD	2010
	Nursing	MS	2009
San Marcos	Education	EdD	2010
	Education	EdD	2010
Sonoma	Education	EdD	2010
Stanislaus	Education and Teaching	MAT	2009

Staff also concurred with the recommendation to establish three CSU–UC joint Ph.D. programs. Those programs are listed in the UC section. Now under review are proposals to establish leadership programs at CSU Dominguez Hills, CSU Los Angeles, and CSU San José. The table on page 6 lists CSU proposals that CPEC expects to receive in the immediate future.

UC PROGRAM PROPOSALS

The UC Office of the President has recently reorganized its academic planning unit, and has appointed new representatives to CPEC's Program Review Advisory Committee. To date, UC's long-range academic program plan has not changed noticeably. The plan is shown in Appendix C.

CPEC staff grouped UC's proposed graduate programs into the seven general discipline areas. Nearly two-thirds are in physical and health sciences. Physical science includes chemical and environmental engineering, geophysics, climate science, chemistry, and planetary science. The health sciences area reflects to a large degree the planning initiatives of UC San Francisco and UC Irvine. Health science programs under consideration at UCSF include global health science, epidemiology, bioengineering, and health psychology and behavior. Programs proposed by UC Irvine include public health, epidemiology, medical social science, molecular medicine, therapeutics, and nursing science.

Staff also reviewed and concurred with proposals to establish ten graduate programs, which are shown in the table on page 8. Three are joint doctoral engineering programs to be conducted by UC San Diego and San Diego State University. The joint programs build on a successful partnership that involves faculty exchange and collaboration between the two institutions, leveraging resources, and increasing the production of engineering doctorates.

The structural engineering program is an outgrowth of common research interests in aerospace structures, geotechnical engineering, composite materials, and civil structures. Students will have access to the experimental facilities at UC San Diego — including the Powell Structural Engineering Laboratories — and to the SDSU subsonic and supersonic wind tunnels, water tunnels, fabrication facilities, and geotechnical engineering laboratories. The proposal noted that the program will prepare students for careers in research, teaching, and advanced professional practice in civil and aerospace structures, earthquake and geotechnical engineering, composites, and engineering mechanics.

The doctoral program in electrical engineering will provide advanced studies and research opportunities in communication theory and systems; computer engineering; electronic circuits and systems; intelligence systems, robotics and control, photonics; and signal and image processing. UCSD is considered a leader in wireless communications. Its Center for Wireless Communications focuses on low-power circuitry (radio frequency, analog, and digital), smart antennas, communication theory (including speech, video, and image compression), communication networks, and multimedia applications. Research facilities at SDSU have enabled the institution to characterize and

UC's Five-Year Program Plans, 2008–13

General Discipline Area	Number	Percent
Physical Sciences	51	30.7%
Health Sciences	33	19.9
Humanities	31	18.7
Professional Studies	25	15.1
Social Sciences	15	9.0
Biological Sciences	8	4.8
Education	3	1.8
Total proposed	166	100.0%

model low-noise devices and integrated circuits. Current efforts include work on deep submicron CMOS technology that is of high interest in the communications industry.

The joint doctoral program in bioengineering will focus on the research interests of the two institutions. The SDSU bioengineering program has focused on the theory, design, and development of medical devices. Research facilities include an experimental apparatus for conducting studies on fluid and solid mechanics in the heart and cardiovascular system. University researchers have developed a cardiac simulator to study medical devices that interface with the heart and major vessels. Collaborative research areas with UCSD include micro and nanofluidics, molecular diagnostics, tissue engineering and scaffolding, and cardiac and valve mechanics. Graduates will have a research specialty in bioengineering with a focus in molecular biomechanics and cell and tissue engineering.

UC Proposals Approved by CPEC

Graduate Program	Degree	Campus
Bioinformatics	M.S./Ph.D	Los Angeles
Management	Ph.D.	Riverside
Management	Ph.D.	San Diego
International Affairs	M.A.S.	San Diego
Science and Technology	M.S.	San Francisco
Materials Science and Engineering	M.S./Ph.D.	Riverside
Communications	Ph.D.	Davis
Computational Science and Mathematics	Ph.D.	San Diego
Prof.Accountancy	MPA	Berkeley
Joint Doctoral Programs, UC San Diego–San Diego State		
Bioengineering		
Electrical and Computer Engineering		
Structural Engineering		

UC AND CSU GRADUATE NURSING EDUCATION PLANS

UC and CSU intend to expand nursing education programs. CSU representatives discussed with CPEC an interest in offering the Doctor of Nursing Practice (DNP) degree. AB 867 (Nava), which was approved by the Assembly on June 3, 2009, would authorize CSU to award this degree. The bill distinguishes the DNP from the Ph.D. in nursing offered by UC and mandates that the program be designed to enable professionals to earn the degree while working full-time, train nurses for advanced practice, and prepare clinical faculty to teach in postsecondary nursing programs. Initial funding is to come from existing CSU budgets without diminishing the quality of undergraduate programs or reducing enrollments.

During the academic year, CPEC staff spent considerable time reviewing a proposal to establish the Betty Irene Moore School of Nursing at UC Davis. The nursing school is expected to expand the supply of registered nurses and nurse educators through an interdisciplinary approach, leading to the Bachelor of Science, Master of Science, and Doctor of Philosophy degrees.

CPEC staff reviewed evidence supporting the position that an educational and clinical training program involving a wide range of discipline areas will enhance the capacity and sensitivity of nursing professionals to respond more effectively and compassionately to the state’s social and cultural health care needs.

Given the adverse effects of the current national and state recessions, CPEC is pleased that a \$100 million grant from the Gordon and Betty Moore Foundation will fund approximately 90% of start-up costs over the next three years. State marginal cost funding per full-time-equivalent student, and student fee revenue, are not projected to account for the majority (two-thirds) of total revenue until

2020, when the foundation grant funds are depleted. The school is expected to reach a steady state in 2016–17, when enrollments will total 200 undergraduates, 200 master’s students, and 56 doctoral students.

Although the Commission concurred with the recommendation to establish the nursing school at UC Davis, it is felt that nursing education and supply issues can be better understood within the context of statewide program planning. California colleges and universities presently offer 131 nursing education degree programs. Collectively, these programs graduated 7,500 students during the 2005–06 academic year. CPEC has initiated a study to address the following questions:

- What is the correct mix of nursing programs and graduates given the state’s labor market needs?
- How should nursing program expansion occur across higher education systems to optimize nursing care delivery?
- What specific nursing supply issues are being addressed by each higher education system?
- What institutional practices are having unintended adverse consequences on nursing supply?

CPEC staff will present a report addressing persistence and attrition rates in nursing programs at the September 2009 Commission meeting.

COMMUNITY COLLEGE PROGRAM PROPOSALS

The Community Colleges Chancellor’s Office does not prepare a statewide long-range program plan, because planning falls under the purview of local community college districts and their governing boards. To support districtwide planning, the Chancellor’s Office produced in 2003 a System Strategic Plan in consultation with the districts and external stakeholders and partners. The plan is reviewed and updated annually. It includes two elements that are germane to program planning and review: Curriculum and Program Development, and Economic and Workforce Planning.

Discussions have been initiated with the Chancellor’s Office to implement a procedure that would enable CPEC to have electronic access to each district’s long-range plans without having to search 72 websites. Once this procedure is operational, CPEC will be able to summarize and discuss those plans and the system’s strategic plan in subsequent annual program review reports.

In the 2008–09 academic year, the system office used CPEC’s review guidelines in authorizing 830 new academic and vocational programs, which are listed in Appendix D. These programs were not subject to review by CPEC because of the revised review agreements, which are outlined on page 2.

The table on the next page lists the proposals that were subject to CPEC review and comment. After completing a thorough review, the Chancellor’s Office was notified that each proposal met all review criteria. A sample of CPEC’s evaluative comments are noted below.

In concurring with the proposal to establish a program in Emergency Management and Homeland Security at Citrus College, CPEC staff agreed that vigilance in disaster prevention and relief has been heightened since 9/11. In addition to the need for well-organized emergency management plans in the event of a terrorist attack, California faces natural disaster threats that also require diligent organization and response. Letters of support from police, fire, and other community response

organizations helped demonstrate a need to fill career positions in emergency management with qualified graduates in the Los Angeles area.

Staff determined the program's curriculum seemed to focus almost exclusively on emergency management, with little attention devoted to what is practically meant by homeland security. Thus, the title indicates a greater breadth and scope of curriculum than actually exists in the proposed program. Staff recommended that Citrus College title the program Emergency Management to more accurately reflect the narrower curriculum.

In concurring with the proposal to establish a dental hygiene program at the College of San Mateo, CPEC staff noted that the college provided compelling evidence of regional need and local demand. The evidence included labor market information and data, letters of support from industry professionals, and the voter-approved bond that will support construction of a new facility. San Mateo College provided detailed responses about capital and administrative costs, as well as a breakdown of student charges for two-year participation in the program.

Community College Program Proposals Reviewed by CPEC, 2008–09

Campus	Program
Cerritos College	New Product Development
Diablo Valley College	Photovoltaic Energy Systems
Los Angeles City College	Korean Language
Citrus College	Emergency Management and Homeland Security
Coastline College	Process Technology
San Mateo College	Dental Hygienist

APPENDIX A: CPEC'S PROGRAM REVIEW GUIDELINES

Societal need

Postsecondary education institutions bear a responsibility for preparing students to meet the state's workforce and knowledge needs. Workforce demand projections serve as one indication of the need for a proposed program. Although achieving and maintaining a perfect balance between supply and demand in any given career field is impossible, it is important nevertheless that the number of persons trained in a field and the number of job openings in that field remain reasonably balanced.

Maintenance and improvement of quality

Protecting the public interest and trust requires that educational programs at all levels be high quality. Although the primary responsibility for the quality of programs rests with the institution and its system, the Commission, for its part, considers pertinent information to verify that high standards have been established for the operation and evaluation of the program.

Student demand

Within reasonable limits, students should have the opportunity to enroll in programs of study they are interested in and qualified for. Therefore, student demand for programs, indicated primarily by current and projected enrollments, is an important consideration in determining need for a new program.

Appropriateness to the institutional and system mission

Programs offered by a public institution within a given system must comply with the delineation of function for that system, as set forth in the California Master Plan for Higher Education. Proposed new programs must also be consistent with the institution's own statement of mission and must be approved by the system's statewide governing body.

Number of existing and proposed programs in the field

An inventory of existing and proposed programs provides an initial indication of the extent to which apparent duplication or undue proliferation of programs exists, both within and among the higher education systems. However, the number of programs alone cannot be regarded as an indication of unnecessary duplication. This is because (a) programs with similar titles may have varying course objectives or content, (b) there may be a demonstrated need for the program in a particular region of the state, or (c) the program might be needed for an institution to achieve academic comparability within a given system.

Total costs of the program

The relative costs of a program, when compared with the costs of other programs in the same area, constitute another criterion in the Commission's program review process. Included in the consideration of costs are the number of new faculty required based on desired student-faculty ratios, as well as costs associated with equipment, library resources, and facilities necessary to deliver the program. For a new program, it is necessary to know the source of the funds required for program delivery, both initially and in the long run.

Advancement of knowledge

The program review process encourages the growth and development of intellectual and creative scholarship. When the advancement of knowledge seems to require establishing programs in new disciplines or in new combinations of existing disciplines, such considerations as costs, student demand, or employment opportunities may become secondary.

APPENDIX B: CSU'S LONG-RANGE PROGRAM PLANS

Proposed program projections 2009–10 through 2018–19

Bakersfield

2009

BS Computer Engineering
BS Electrical Engineering
BS Engineering
MS Computer Science

2010

EdD Education

Channel Islands

2010

BA Anthropology
MA English
MFA Art

2011

BS Computer Engineering
MS Biology

2012

BS Health Science
MA History
MPA Public Administration

2013

BA Social Justice
BA Geography and Urban Studies
MS Applied Sociology

2014

BA Philosophy
BS Kinesiology/Athletic Training
MS Nursing

2015

BS Nutrition/Dietetics
EdD Educational Leadership

Chico

2009

BS Animal Science
BA Chemistry
BA Legal Studies
MS Engineering Management

2010

EdD Educational Leadership

2011

BA Biological Sciences*
BA Environmental Policy and Planning*
BA Natural Sciences*

Dominguez Hills

2009

MBt Biotechnology
MPH Public Health

2010

BS Exercise Science
MA Communication Disorders
MA Theatre Arts*
EdD Educational Leadership

2011

MA Spanish
MS Exercise Science

East Bay

2009

BA Women's Studies* — fast track
BS Construction Management* — fast track
MA Biological Science* — fast track
MS Accounting* — fast track
MS Biotechnology* — fast track

* Newly proposed for Trustees' planning authorization. Implementation subject to review and approval by the Chancellor.

CSU's Long-Range Program Plans — *continued*

Fresno

2009

BS Athletic Training*

2010

BS Rehabilitation Services*

Fullerton

2009

BA Earth Science

BSE Software Engineering

MA Adult and Lifelong Learning

MA Chemistry

MA Statistics

MS Integrated Marketing Communication

MBt Biotechnology*

MFA Screenwriting

MSW Social Work

2010

MA Japanese

MA Liberal Studies

2011

MA Criminal Justice

2012

BA Chinese Studies

Humboldt

2009

BS Athletic Training*

BS Marine Biology

EdD Education

2010

BA Criminology and Justice Studies*

Long Beach

2009

BA Engineering Systems

BFA Interior Design*

MS Applied Statistics*

2010

BA Liberal Arts* — fast track

Los Angeles

2009

BA Career and Technical Studies*

BA Food Science

MBt Biotechnology

MS Technology

DNP Doctor of Nursing Practice

joint partner to be determined

EdD Education (date changed)

2011

MS Aerospace Engineering*

PhD Complex Systems*

with Claremont Graduate University

AuD Audiology*

with Western University of Health Sciences

2012

BA Computer Science

BA Urban Studies

MS Systems Engineering*

PhD Forensic Sciences

joint partner to be determined

2013

BA Computer Science

MA Liberal Studies

MS Applied Sociology

Maritime Academy

2009

BS Science and Mathematics

2010

MS Transportation and Engineering Management*

CSU's Long-Range Program Plans — *continued*

Monterey Bay

2009

BA Human Development
MS Instructional Science and Technology*
MS Management and Information Technology (pilot conversion)

2010

BA Liberal Arts*
MA Applied Ethics and Communication
MS Nursing
MSW Social Work

2011

BA Environmental Studies*

2012

MA Critical and Applied MultiCultural Studies
EdD Education

Northridge

2009

BS Computer Information Technology (formerly Information Technology)
MPP Master of Public Policy

2010

MS Computer Engineering
MS Information Technology*
MS Marketing and Design Management
MA Humanities
MA Economic Policy Analysis*
MA Music Industry Studies*
MA Assistive Technology in Human Service*
MS Assistive Technologies and Rehabilitation*

2011

MS Structural Engineering
MS Quality Management
MBA/JD Business Administration and Law
joint partner to be determined

2012

BS Industrial and Quality Mgmt

Pomona

2009

MBt Biotechnology

2010

MIA Interior Architecture*
MS Geological Sciences*
EdD Educational Leadership

Sacramento

2009

BA Career and Technical Studies*
BS Biochemistry
MA Biological Sciences

San Bernardino

2009

BA Career and Technical Studies*
MSA Accountancy

2010

BS Civil Engineering
BS Electrical Engineering
BS Mechanical Engineering
MA Music
MS Kinesiology

San Diego

2009

PhD Bioengineering* — *with UCSD*
PhD Electrical and Computer Engineering*
with UCSD
PhD Evolutionary Biology — *with UC Riverside*
PhD Geophysics*
with Scripps Institute of Oceanography and UCSD
PhD Structural Engineering* — *with UCSD*

2010

BA Health Communication*
BFA Graphic Design
MS Information Systems*
EdD Special Education — *with UC San Diego*

CSU's Long-Range Program Plans — *continued*

San Diego — continued

2011

MA Translation and Interpreting
MFA Film, Television, and Digital Media
PhD Hearing Science — *with UC San Diego*

2012

PhD Communication
with Fielding Graduate Institute
PhD English and Children's Literature
with UC Riverside
PhD Information Systems
with Claremont Graduate University
PhD Social Work
with University of Southern California

San Francisco

2009

BS Visual Communication Design
MS Special Education*
AuD Audiology

2013

MA Sociology*

San José

2009

BA Foreign Language and International Economics
BFA Dance
EdD Education

2010

BA Asian American Studies*
BS Athletic Training* — fast track
MS Medical Product Development Management*
MFA Music*

San Luis Obispo

2009

BS Anthropology and Geography
BA Sociology

2010

BS Agricultural Communication
MA Disaster Management and Homeland Security*
MS Fire Protection Engineering*
MAE Agricultural Education
EdD Education

San Marcos

2009

BA Child and Adolescent Development
BA Music
MS Nursing

2010

BA Ethnic Studies
EdD Education

Sonoma

2010

EdD Education

Stanislaus

2009

MAT Education/Teaching

2010

BA Ethnic Studies* — fast track

APPENDIX C: UC'S LONG-RANGE PROGRAM PLANS

UNIVERSITY OF CALIFORNIA
Proposed Degree Programs
2008 - 2013
BERKELEY

Proposed Programs	Degree	Status
UNDERGRADUATE PROGRAMS		
Proposals added for 2008 update are shown in BOLD		
Urban and Metropolitan Studies	B.A.	2
Information	B.S.	1
Materials Chemistry	B.S.	1
GRADUATE PROGRAMS		
Proposals added for 2008 update are shown in BOLD		
Education Leadership (jt. w/ SFSU, CSU East Bay, SJSU)	Ed.D.	discontinue 2011
Professional Accountancy	M.P.Acc.	3
Accounting	M.S.	2
Epidemiology (w/ UCSF)	Ph.D.	1
Leadership in Early Childhood Studies	M.A.	1
Product Development	M.S.	1
Public Health/Engineering	M.P.H./M.S.	1
Public Health/Journalism	M.P.H./M.J.	1
Public Health/Nursing (concurrent with UCSF)	M.P.H./L.S.	1
Transnational Feminist Studies	M.A./ Ph.D.	1

1 suggested for list

2 department review

3 campus administration review

4 CCGA CPEC review

UNIVERSITY OF CALIFORNIA
Proposed Degree Programs
2008 - 2013
DAVIS

Proposed Programs	Degree	Status
UNDERGRADUATE PROGRAMS		
(none for 2008 update)		
GRADUATE PROGRAMS		
Proposals added for 2008 update are shown in BOLD		
Chemical Engineering (Jt. w/ Middle East Technical University, Turkey)	Jt. Ph.D.	3
Communication	Ph.D.	3
Ecology (formerly Plant Ecology) w/ CSU Chico	Jt. Ph.D.	3
Environmental Policy & Management	M.S.	3
Health Informatics	Ph.D.	2
Bioinformatics	M.S./Ph.D.	1
Community Development	Ph.D.	1
Computational Science & Engineering	M.S. & Ph.D.	1
Energy Graduate Group (formerly Energy, Systems, Technology, & Policy)	M.S. & Ph.D.	1
Family Nurse Practitioner/Physician Assistant Program	M.H.S.	1
Health Services in Family Nurse Practitioner (MPAS)	MPAS	1
Medical Speech/Swallowing	Ph.D.	1
Nursing	M.S.	1
SCHOOLS and COLLEGES		
School of Nursing		4
School of Public Health		4
Graduate School of the Environment		2

- 1 suggested for list
- 2 department review
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- 4 CCGA CPEC review

UNIVERSITY OF CALIFORNIA
Proposed Degree Programs
2008 - 2013
IRVINE

Proposed Programs	Degree	Status
UNDERGRADUATE PROGRAMS		
Proposals added for 2008 update are shown in BOLD		
Business Administration	B.A.	3
Business Information management	B.S.	3
History Subject Matter Preparation	B.A.	3
Korean Language & Culture	B.A.	3
Biotechnology	B.S.	2
Chinese Studies	B.A.	2
Engineering Design Software	B.S.	2
Latin	B.A.	2
Legal Studies	B.A./M.A.	2
Literary Journalism	B.A./M.A.	2
Nursing Science	B.S.	2
Statistics	B.A.	2
Bioinformatics	B.S.	1
Information & Computer Science	B.A.	1
Exercise & Rehabilitation Medicine	B.A.	1
Urban Studies	B.A.	1
GRADUATE PROGRAMS		
Proposals added for 2008 update are shown in BOLD		
Public Health	M.P.H.	4
Information & Computer Science & Business Administration	M.B.A./M.S.	3
International Studies	M.A.	3
Molecular Medicine & Therapeutics	Ph.D.	3
Public Policy	M.P.P.	3
African American Studies	M.A.	2
Clinical Sciences	M.S./Ph.D.	2
Criminology, Law & Society	Ph.D.	2
Engineering Design Software	M.S./Ph.D.	2
Environmental Health	Ph.D.	2
Informatics	M.S./Ph.D.	2
Medical Social Sciences	M.A.	2
Nursing Practice, Doctor of	D.N.P.	2
Nursing Science	M.S./Ph.D.	2
Pharmaceutical Sciences	M.S./Ph.D.	2
Political Consultancy & Government Relations	M.A.	2
Spanish	M.A.	2
The Americas	M.A.	2
Business Administration Master's & J.D.	M.B.A./J.D.	1
Computer Science and Engineering	M.S./Ph.D.	1
Environmental Engineering	M.S./Ph.D.	1
Epidemiology	M.S./Ph.D.	1
Exercise Science & Rehabilitation Medicine	M.S./Ph.D.	1
Master's of Art in Teaching w/ Biological Sciences	M.A.T.	1
Mathematics, Computational & Systemic Biology (MCSB)	Ph.D.	1
Mathematics, Computational & Systems Biology	Ph.D.	1
Physical Therapy (w/ CSU Long Beach)	D.P.T.	1
Psychology & Law	M.A./Ph.D.	1
Public Health & M.D.	M.P.H. & M.D.	1
Software Engineering	M.S./Ph.D.	1
Software Engineering (ICS)	M.S./Ph.D.	1
Urban Planning	M.A./J.D.	1
SCHOOLS		
School of Education		1
School of Nursing Science		1
School of Public Health		1

1 suggested for list

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UNIVERSITY OF CALIFORNIA
Proposed Degree Programs
2008 - 2013
LOS ANGELES

DRAFT

Proposed Programs	Degree	Status
UNDERGRADUATE PROGRAMS		
Armenian Studies	B.A.	2
Complex Human Systems	B.A.	2
Computational & Systems Biology	B.S./M.S.	3
Music	B.M.	2
Social Complexity	B.A.	2
Dance	B.A.	2
Art	B.F.A.	1
Art	B.F.A.	1
GRADUATE PROGRAMS		
Proposals added for 2008 update are shown in BOLD		
Bioinformatics	M.A./Ph.D.	4
Nursing Administration	M.S.N.	3
Chicana/Chicano Studies	M.A./Ph.D.	2
Geographical Information Systems	MSGIS	2
Health Education & Promotion	M.P.H.	2
Healthcare Management & Policy	M.P.H.	2
Translational Research	Ph.D.	2
Afro-American Studies	Ph.D.	1
Applied Statistics	M.S.	1
Applied Statistics	M.S.	1
Asian American Studies	Ph.D.	1
Communication Studies	M.A.	1
Design & Media Studies	Ph.D.	1
Electronic Arts	M.S.	1
Law & Medicine	J.D./M.D.	1
Law & Philosophy	J.D./M.A.; J.D./Ph.D.	1
Museum & Curatorial Studies	M.A.	1
Public Administration (school-wide)	E.M.P.A.	1
Risk Management	M.S.	1
Systems Engineering	M.S.	1
Teaching of Statistics	M.S.	1

- 1 suggested for list
- 2 department review
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UNIVERSITY OF CALIFORNIA
Proposed Degree Programs
2008 - 2013
MERCED

Proposed Programs	Degree	Status
UNDERGRADUATE PROGRAMS		
Anthropology	B.A.	3
Electrical Engineering	B.S.	3
Global Arts	B.A.	3
Aerospace Engineering	B.S.	1
Art Studies	B.A.	1
Chemical Engineering	B.S.	1
Civil Engineering	B.S.	1
Comparative Ethnic & Cultural Studies	B.A.	1
Engineering Economics & Management	B.S.	1
Entrepreneurship	B.A.	1
Global Studies	B.A.	1
Integrative Biology	B.S.	1
Management of Technology	B.S.	1
Sociology	B.A.	1
Spanish	B.A.	1
Spatial Analysis	B.S.	1
World Heritage	B.A.	1
GRADUATE PROGRAMS		
Aerospace Engineering	M.S./Ph.D.	1
Anthropology	M.A./Ph.D.	1
Biochemistry, Molecular/Cell Biology	M.S./Ph.D.	1
Chemical Engineering	M.S./Ph.D.	1
Chemistry	M.S./Ph.D.	1
Civil Engineering	M.S./Ph.D.	1
Cognitive Science	M.S./Ph.D.	1
Critical Studies	Ph.D.	1
Economics	M.A.	1
Electrical Engineering	M.S./Ph.D.	1
Engineering Economics & Management	M.S./Ph.D.	1
History	M.A./Ph.D.	1
Literature	M.A./Ph.D.	1
Management	M.S./Ph.D.	1
Museum Studies	Ph.D.	1
Physics	M.S./Ph.D.	1
Political Science	M.S./Ph.D.	1
Psychology	M.S./Ph.D.	1
Security Studies	M.A./M.S.	1
Sociology	M.S./Ph.D.	1
SCHOOLS		
Gallo School of Management		1
School of Medicine		1

1 suggested for list

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4 CCGA CPEC review

UNIVERSITY OF CALIFORNIA
Proposed Degree Programs
2008 - 2013
RIVERSIDE

Proposed Programs	Degree	Status
UNDERGRADUATE PROGRAMS		
Proposals added for 2008 update are shown in BOLD		
Engineering (combined 5-year program)	B.S./M.S.	3
Business Administration: integrated 5-year program	B.S./M.B.A.	2
Bioengineering	B.S.	2
Foreign Languages/Administrative Studies	B.A.	2
Civil & Construction Management Program	B.S.	1
Digital Arts (Art & Engineering)	B.S.	1
GRADUATE PROGRAMS		
Proposals added for 2008 update are shown in BOLD		
Management	M.S./Ph.D.	4
Environmental Sciences	M.S./Ph.D.	3
Evolution, Ecology & Organismal Biology (Jt. w/	Ph.D.	3
Materials Science & Engineering	M.S.	3
Public Policy	M.A./Ph.D.	3
Accounting	MAcc	2
Astrophysics	M.S./Ph.D.	2
Engineering	M.Eng.	2
Engineering Management	M.S.	2
Executive Master of Business Administration	M.B.A.	2
History of Art	Ph.D.	2
Linguistics	Ph.D.	2
Media & Cultural Studies	M.A./Ph.D.	2
Women's Studies	M.A./Ph.D.	2
English & Children's Literature (Jt. w/ SDSU)	Ph.D.	1
Theatre	M.A.	1
SCHOOLS		
School of Law	suspended	
School of Medicine		4
School of Public Policy		4

- 1 suggested for list
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UNIVERSITY OF CALIFORNIA
Proposed Degree Programs
2008 - 2013
SAN DIEGO

Proposed Programs	Degree	Status
UNDERGRADUATE PROGRAMS		
Proposals added for 2008 update are shown in BOLD		
Electrical Engineering & Sociology	B.A.	3
Environmental Systems (Environmental Technology)	B.S.	2
Engineering Science -- Integrative Engineering	B.S.	2
Marine Biology	B.S.	1
Marine Science	B.S.	1
Visual Arts (specialization in Public Culture)	B.A.	1
Forensic/Analytical Chemistry	B.S.	1
Mathematics (integrated 5-year program)	B.A./M.A.; B.S./M.S.	1
Middle Eastern Studies	B.A.	1
Nano Engineering	B.S.	1
GRADUATE PROGRAMS		
Proposals added for 2008 update are shown in BOLD		
Human Development	Ph.D.	4
Computational Science, Math & Engineering	M.S.	4
Architecture-based Enterprise Systems Engineering	M.A.S.	3
Bioengineering, Electrical & Computer Engineering & Structural Engineering (Jt. w/ SDSU)	Ph.D.	3
Computational Science, Mathematics &	M.S./Ph.D.	3
Geophysics -- Earthquake Science & Applied	Ph.D.	3
Management	Ph.D.	3
Management/Business Education	M.B.A./Ph.D.	3
Public Health -- Global Public Health	Ph.D.	3
International Affairs	M.A.S.	3
Biostatistics	Ph.D.	1
Critical Gender Studies	Ph.D.	1
Distributed Learning & Leadership	Ph.D.	1
Management	Ph.D.	1
Information Technology Innovation	M.Eng., Ph.D.	1
Pharmacy	D. Pharm	1
Projection/Multi-media/Animation/Film	M.F.A.	1
Climate Science	M.S.	1
NanoEngineering	Ph.D.	1
SCHOOLS & COLLEGES		
Seventh College		1

1 suggested for list

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4 CCGA CPEC review

UNIVERSITY OF CALIFORNIA
Proposed Degree Programs
2008 - 2013
SAN FRANCISCO

Proposed Programs	Degree	Status
GRADUATE PROGRAMS		
Proposals added for 2008 update are shown in BOLD		
Global Health Sciences	M.S.	4
Dental Hygiene	M.S.	3
Science & Technology Studies in Medicine	M.S.	3
Audiology (w/ CSU San Francisco)	AuD.	2
Epidemiology	Ph.D.	2
Bioengineering (w/ UCB)	M.Engr., D. Engr.	1
Global Health Sciences	Ph.D.	1
Global Health Sciences	Execcutive M.A.	1
Health Psychology & Behavior Neurosciences (w/ UCB)	Ph.D.	1
Nursing (w/ UCD)	Ph.D.	1
Biological and Medical Informatics	M.S./Pharm.D.	on hold
Cancer Pharmacogenomics	Pharm.D.	on hold
Clinical Informatics & Modeling of Complex Systems	Pharm.D.	on hold
Health Policy Research -- Trans-disciplinary	Ph.D.	on hold
Health Psychology & Behavior Neurosciences	Ph.D.	on hold
Physical Therapy (w/ CSU Northridge)	Jt. D.P.T.	on hold
Post Baccalaureate Doctor of Pharmacy	Pharm.D.	on hold
SCHOOLS		
School of Global Health Studies		2

- 1 suggested for list
- 2 department review
- 3 campus administration review
- 4 CCGA CPEC review

UNIVERSITY OF CALIFORNIA
Proposed Degree Programs
2008 - 2013
SANTA BARBARA

Proposed Programs	Degree	Status
UNDERGRADUATE PROGRAMS		
Proposals added for 2008 update are shown in BOLD		
Language, Culture and Society	B.A.	3
Biotechnology and Pharmacology	B.S.	2
Childhood Studies (Graduate School of Education)	B.A.	1
Conservation Biology	B.S.	1
Cultural Studies	B.A.	1
Electrical & Computer Engineering	B.S.	1
Materials Chemistry	B.S.	1
Mathematics & Empirical Finance	B.S.	1
Native American Studies	B.A.	1
Probability and Statistics	B.S.	1
Religious Studies	B.A./M.A.	1
GRADUATE PROGRAMS		
Proposals added for 2008 update are shown in BOLD		
Materials Chemistry	B.S./M.S.	3
Applied Linguistics	M.A.	2
Art	M.A.	2
Biotechnology and Pharmacology	M.S.	2
Earth Surface Sciences	Ph.D.	2
Financial Mathematics & Statistics	M.S.	2
Geophysics	M.S./Ph.D.	2
Materials (w/ Ecole Polytechnique, France)	Ph.D.	2
Technology Management & Commercialization	M.S.	2
Asian American Studies	M.A./Ph.D.	1
Bioengineering & Bio-Physical Science	M.S./Ph.D.	1
Black Studies	M.A./Ph.D.	1
Dance	M.F.A.	1
Writing for Performance	M.F.A.	1

- 1 suggested for list
- 2 department review
- 3 campus administration review
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UNIVERSITY OF CALIFORNIA
Proposed Degree Programs
2008 - 2013
SANTA CRUZ

Proposed Programs	Degree	Status
UNDERGRADUATE PROGRAMS		
Proposals added for 2008 update are shown in BOLD		
Biomolecular Engineering	B.S.	2
Computer Game Engineering	B.S.	2
Jewish Studies	B.A.	2
Mechatronic Engineering	B.S.	2
GRADUATE PROGRAMS		
Proposals added for 2008 update are shown in BOLD		
Applied Mathematics & Stochastic Modeling	M.S./Ph.D.	2
Autonomous Systems	M.S./Ph.D.	2
Coastal Policy	M.S.	2
Comparative U.S. Studies	Ph.D.	2
Engineering	M.Eng.	2
Feminist Studies	Ph.D.	2
Latin American & Latino Studies	Ph.D.	2
Planetary Sciences	M.S./Ph.D.	2
Remote Sensing/Geographic Information Systems	M.S.	2
Software Engineering	M.S./Ph.D.	2
Visual Art	M.F.A.	2
Biomolecular Engineering	M.S./Ph.D.	1
Computer Game Design	M.S.	1
Engineering Management	M.S./Ph.D.	1
SCHOOLS		
School of Management		2

1 suggested for list

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APPENDIX D: NEW COMMUNITY COLLEGE PROGRAMS

These programs were authorized by the Chancellor's Office. They were not subject to review by CPEC because of the revised review agreements, as outlined on page 2.

College	Approved	Discipline	Degree/Certificate
Allan Hancock	May 2007 March 2007	Culinology Electronics Technology: Mechatronics Engineering Technology: Mechatronics	Degree Both Both
American River	December 2006 March 2007 June 2007	Accounting Clerk LVN 30-Unit Apprenticeship: Electrical Residential Telecommunications Specialist Certificate	Certificate Certificate Certificate Certificate
Antelope Valley	April 2007	Firefighter I Academy	Certificate
Bakersfield	September 2006	Wildland Fire Technology	Degree
Barstow		Residential Electrical	Both
Canyons	August 2006 October 2006 April 2007	Automotive Technology Culinary Arts Recreation Management Construction Management Technology Land Surveying Building Inspection	Both Degree Degree Both Both Certificate
Cerritos		Arts-Dance	Degree
Chabot	September 2006	Apprenticeship: Drywall Finishing Apprenticeship: Painters	Certificate Certificate
Citrus	February 2007 March 2007	Emerging Theatre Technologies Registered Nursing	Certificate Degree
Crafton Hills	November 2006 August 2006	Environmental Science (AS) Multiple Sciences (AS) Social Science (AS) Early Learning 3D Computer Animation Business Administration - AA Computer Assisted Graphic Design Webmaster I	Degree Degree Degree Certificate Certificate Degree Certificate Certificate
Cuyamaca	December 2006	Social Work Early Childhood Intervention	Degree Both
De Anza	March 2007	Enterprise Security Professional	Both
Diablo Valley	July 2006 June 2007	Technical Theatre Business - Transfer	Degree Both

College	Approved	Discipline	Degree/Certificate
Evergreen Valley		Retail Management (WAFC)	Both
Feather River	September 2006	Health, Physical Education & Exercise Studies	Both
Foothill	July 2006	Informatics	Both
		Business Technology: Help Desk/Tech Support	Both
		Enterprise Networking	Both
	April 2007	Oracle Database Administration Career Certificate	Certificate
	June 2007	Apprenticeship: General Electrician	Both
		General Electrician	Both
Fresno City	February 2007	Logistics & Distribution Management	Certificate
Fullerton	January 2007	Physical Education	Degree
Glendale	August 2006	Insurance Specialist	Both
Grossmont		American Sign Language - AA	Both
Imperial Valley		History	Degree
	June 2007	Liberal Studies-SDSU Teacher Preparation Option	Degree
LA Valley	August 2006	Hebrew Studies	Degree
Las Positas	March 2007	Apprenticeship: Bridgestone/Firestone	Certificate
Los Medanos	July 2006	Environmental Science	Degree
	August 2006	Process Technology	Both
Merritt		Dietary Manager (Diabetic Service Supervisor)	Certificate
Mira Costa	March 2007	LVN - RN Career Ladder	Both
Mission		University Transfer Studies	Degree
Moorpark	December 2006	Anthropology	Degree
Mt. San Antonio	May 2007	Hospitality: Hospitality Management - Level I & II	Certificate
		Hospitality: Restaurant Management - Level I & II	Certificate
	June 2007	Licensed Welder	Certificate
		Licensed Welder:Automotive Welding, Cutting & Modification	Certificate
		Licensed Welder: Gas Tungsten Arc Welding	Certificate
		Licensed Welder: Semiautomatic Arc Welding	Certificate
Orange Coast	November 2006	Community Nutrition Assistant	Certificate
	October 2006	Electronics Technology:Automation & Motor Control	Both
		Electronics Technology: Electronic Communications Technician	Both
		Electronics Technology: Electronics Assembler Technician	Both
		Electronics Technology: Computer Hardware Technician	Both
	November 2006	Medical Assisting: Clinical	Certificate
Oxnard		Dental Assisting	Certificate

College	Approved	Discipline	Degree/Certificate
Palomar	August 2006 June 2007	Apprenticeship: Inside Wireman Apprenticeship: Plasterer Apprenticeship: Residential Wireman Public Works Management - Level II Alcohol and Other Drug Studies Entertainment Technology French - AA	Both Both Both Both Both Certificate Both
Pasadena City	September 2006	Biological Technology Computational Biology Biological Technology Stem Cell Culture	Certificate Certificate
Redwoods		Culinary Arts Restaurant Management	Degree Degree
Reedley	May 2007	Airframe Powerplant	Certificate Certificate
Rio Hondo		Chicano Studies	Degree
Riverside	September 2006 April 2007	Business Administration: Human Resources Insurance: Casualty and Life	Both Both
Sacramento City	March 2007	Engineering, Civil Engineering Engineering, Electrical/Computer Engineering Engineering, General Engineering, Mechanical/Aeronautical Web Developer Webmaster, Level 2	Degree Degree Degree Degree Both Certificate
San Bernardino Valley	August 2006 November 2006 January 2007	Machine Technology Family Child Care Provider Pharmacy Technician	Certificate Certificate Both
San Diego City	August 2006	Manufacturing Engineering Technology Apprenticeship: Machining Trades Apprenticeship: San Diego Transit Electronic Technician	Degree Both Both
San Diego Miramar	November 2006	Fitness Specialist Apprenticeship: San Diego Transit General Mechanic	Certificate Both
San Francisco City	September 2006 June 2006 September 2006 November 2006 February 2007	Chinese French General Business Italian Japanese Spanish Motorcycle Maintenance Technician English Computer Networking and Information Technology	Degree Degree Degree Degree Degree Degree Both Degree Degree
San Joaquin Delta	March 2007	American Sign Language	Certificate
Santa Monica	January 2007	Web Programmer	Both

College	Approved	Discipline	Degree/Certificate
Santa Rosa	August 2006	Automotive Technology	Degree
		Medical Assisting: Administrative	Degree
	September 2006	Medical Assisting: Clinical	Degree
		State Correctional Peace Officer	Certificate
		Psychology	Degree
		Agriculture Science, Education and Communication	Degree
		Interactive Media Design	Both
		Veterinary Technician	Certificate
Santiago Canyon		Apprenticeship: Operating Engineers, Heavy Duty Repairman	Both
		Apprenticeship: Operating Engineers, Heavy Equipment Operator	Both
		Apprenticeship: Operating Engineers, Inspection Option	Both
		Apprenticeship: Operating Engineers, Rock Products Industry	Both
Sequoias		Administration of Justice	
Shasta	March 2007	Forest Science and Technology	Degree
Sierra	December 2006	Psychology	Degree
		Recreation Management	Degree
	January 2007	Art History	Degree
Siskiyou	June 2007	Nursing (LVN-RN Step-Up) Program	Both
Southwestern	March 2007	Business Management	Both
		CIS: Computer Programming with Emphasis on Applications	Both
		CIS: Microcomputer Office and Technical Supports Skills	Both
		Insurance	Both
		Medical Assistant-Administrative	Both
		Medical Assistant-Clinical	Both
		Medical Insurance and Coding	
		Medical Interpretation (Spanish-English)	
Victor Valley	May 2007	Medical Office Management	
		Aviation Maintenance Technology	Degree
		Aviation Maintenance Technology: Aviation Airframe	Certificate
		Aviation Maintenance Technology: Aviation Powerplant	Certificate
West Hills-Coalinga	December 2006	Precision Agriculture	Both
West LA	December 2006	Computer Network & Security Management	Both
	January 2007	Hospitality	Both